



HW/DAC

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Oliver Ralf Petri

Confirmation: 3619

Appln. No.: 10/501,085

Group Art Unit: 3749

Filed: July 09, 2004

Examiner: Lu Jiping

For: MICROWAVE MIXER/DRYER REACTOR FOR INDUSTRIAL USE

Docket No.: 600.001

Customer No. 000058152

**RENEWED PETITION TO REVIVE UNDER 37 CFR 1.181 AND POWER OF
ATTORNEY AND CORRESPONDENCE ADDRESS**

Mail Stop Petitions

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The Applicant hereby petitions for reconsideration of the April 12, 2006, Dismissal of the petition for revival of the above-identified application under 37 CFR 1.137(b). (See attachment A)

The Decision indicates that the Applicant's assertion that the Office Action was not received was not adequately supported.

The Decision indicates that the showing required establishing non receipt of an Office Communication must include:

1) A statement from the Applicant stating that the Office Action Communication was not received by the Applicant and attesting to the fact that a search of the file jacket and docket records indicated that the Office Communication was not received.

BEST AVAILABLE COPY

U.S. Application 10/501,085
RENEWED PETITION TO REVIVE UNDER 37 CFR 1.181 AND POWER OF
ATTORNEY AND CORRESPONDENCE ADDRESS

Docket: 600.001

2) A copy of the file jacket or docket record where the non-received Office Communication would have been entered had it been received and docketed.

In response, Applicant states that the failure to timely and properly respond to the Notice of Allowance and Issue Fee mailed July 27, 2006, was **UNINTENTIONAL** because this Communication was never received by the Applicant.

Regarding Issue 1

The Applicant states that he had search the file jacket and docket records on the above-identified application and the search indicates that the Communication was never received by the applicant.

The Applicant respectfully point out to the Examiner that in view that Applicant's address is outside the United States of America (Spain), any communications had to travel between the US and Spain. The strained nature of the communication route is evidenced by the fact that the Notice of Abandonment mailed December 16, 2005, was received by the Applicant on January 12, 2006, almost a month after the mailing of the Notice.

Regarding Issue 2

The Applicant attaches here to:

1) A copy of the file jacket where the non-received Office Communication would have been entered had it been received and docketed; and

U.S. Application 10/501,085
RENEWED PETITION TO REVIVE UNDER 37 CFR 1.181 AND POWER OF
ATTORNEY AND CORRESPONDENCE ADDRESS

Docket: 600.001

2) copy of the calendar where the non-received Office
Communication would have been docketed for the payment of
the Issue Fee.

**In order to avoid further confusions, a Power of Attorney and
correspondence address is being filed herewith.** Entry of the
appointment of the legal representative and changes on the
correspondence address is respectfully requested.

Please direct all correspondence and telephone calls pertaining
to this application to:

Evelyn A. Defillo
Defillo & Associates, Inc.
4922 Eagle Cove South Drive
Palm Harbor, FL 34685

(727) 772-5916 telephone
(727) 789-6477 facsimile

It is imperative that if any correspondence is being e-mailed,
the e-mails must be directed to the following e-mail address:

edefillo@tampabay.rr.com

**Alternatively, and only contingent upon denial of the above
stated Petition for Withdrawal of Holding of Abandonment, the
Applicants hereby petition for revival of the above referenced
application under 37 C.F.R. 1.137(b).**

**Furthermore, the Applicant is submitting herewith the duly
executed Issue Fee transmittal form, which was UNINTENTIONALLY**

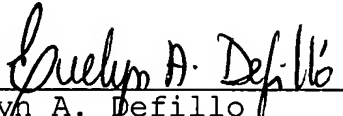
U.S. Application 10/501,085
RENEWED PETITION TO REVIVE UNDER 37 CFR 1.181 AND POWER OF
ATTORNEY AND CORRESPONDENCE ADDRESS

Docket: 600.001

**Omitted at the time the Petition for Revival under 1.137(b) was
filed.**

A credit card charge authorization form to cover the
Petition fee, Issue Fee, and Publication Fees, in the amount of
\$1,750.00 was previously submitted to the USPTO. Thus, no fees are
due at this point.

Respectfully submitted,



Evelyn A. Defillo
Registration No. 45,630

Defillo & Associates, Inc.
4922 Eagle Cove South Drive
Palm Harbor, FL 34685

(727) 772-5916 telephone
(727) 204-9544 Cellular Phone

Date: **June 01, 2006**

CERTIFICATE OF MAILING

I HEREBY CERTIFY that the foregoing RENEWED PETITION TO REVIVE
UNDER 37 CFR 1.181 AND POWER OF ATTORNEY AND CORRESPONDENCE ADDRESS
for US Application No. 10/501,085 filed July 09, 2004 were deposited
in first class U.S. mail, with sufficient postage to Mail Stop:
Petition, P.O. Box 1450, Alexandria, VA 22313-1450, on **June 01,**
2006.



Evelyn A. Defillo

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571) 273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All other correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated or corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

7590
 Oliver Ralf Petri
 Avda-Europa 42-Local
 A Pozuelo De Alarcón
 Madrid, 28224
 SPAIN

07/27/2005
 Evelyn A. Defillo
 Defillo & Associates, Inc.
 4922 Eagle Cove South Dr
 Palm Harbor FL 34685

Certificate of Mailing or Transmission
 I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

Evelyn A. Defillo (Depositor's name)
 Evelyn A. Defillo (Signature)
 June 01, 2006 (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/501,085	07/09/2004	Ralf Oliver Petri		3619

TITLE OF INVENTION: MICROWAVE MIXER/DRYER REACTOR FOR INDUSTRIAL USE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$700	\$300	\$1000	10/27/2005
EXAMINER	ART UNIT	CLASS-SUBCLASS			
LU, JIPING	3749	034-259000			

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☒ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1. Defillo & Associates, Inc.
 2. Evelyn A. Defillo
 3.

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are enclosed: none previously submitted.

- ☒ Issue Fee
☒ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies

4b. Payment of Fee(s):

- ☐ A check in the amount of the fee(s) is enclosed.
☒ Payment by credit card. Form PTO-2038 is attached was previously submitted
☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☒ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature Evelyn A. Defillo
 Typed or printed name Evelyn A. Defillo

Date June 01, 2006
 Registration No. 45,630

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450
www.uspto.gov

Attachment A

Oliver Ralf Petri
Avda. Europa 42-Local
A-Pozuelo De Alarcon
Madrid 28224 ES SPAIN

COPY MAILED

APR 12 2006

OFFICE OF PETITIONS

In re Application of
Oliver Ralf Petri
Application No. 10/501,085
Filed: July 9, 2004
Title of Invention:
MICROWAVE MIXER/DRYER REACTOR FOR
INDUSTRIAL USE

DECISION ON
PETITION

This is a decision in response to the petition under 37 CFR 1.137(b), filed February 27, 2006, to revive the above-identified application. The petition is properly treated as a petition to withdraw the holding of abandonment of the application under 37 CFR 1.181 (no fee)¹.

This Petition is hereby dismissed.

Any further petition to revive the above-identified application must be submitted within TWO (2) MONTHS from the mail date of this decision. Extensions of time under 37 CFR 1.136(a) are permitted. The reconsideration request should include a cover letter entitled "Renewed Petition under 37 CFR 1.181." This is **not** final agency action within the meaning of 5 U.S.C. § 704.

The above-identified application became abandoned for failure to timely and properly reply to the Notice of Allowance and Issue Fee Due ("Notice"), mailed July 27, 2005. The Notice set a non-extendable three (3) month period for reply. No reply having been received, the application became abandoned on October 28, 2005. A Notice of Abandonment was mailed December 16, 2005.

¹A Decision on the petition to revive the application under 37 CFR 1.137(b) will be held in abeyance pending final resolution of the petition to withdraw the holding of abandonment.

Applicant files the instant petition wherein Applicant avers that non-receipt of the Notice.

Applicant is advised that an allegation that an Office action was not received may be considered as a petition for the withdrawal of the holding of abandonment. If the allegation is adequately supported, the petition may be granted and a new Office action mailed. The showing required to establish non-receipt of an Office communication must include:

1. A statement from the Applicant stating that the Office communication was not received by the Applicant and attesting to the fact that a search of the file jacket and docket records indicate that the Office communication was not received.
2. A copy of the file jacket or docket record where the non-received Office communication would have been entered had it been received and docketed must be attached to and referenced in Applicant's statement.

Accordingly, Applicant's assertion, that the Office action was not received, is insufficient to justify withdrawing the holding of abandonment. Applicant must also attest to the fact that a search of the file jacket and docket records indicate that the Notice was not received, and provide a copy of the docket record (or file jacket) where the non-received Notice would have been entered had it been received and docketed².

Applicant should file a Request for Reconsideration of Petition and include the necessary statements and copies of documents.

Further correspondence with respect to this matter should be addressed as follows:

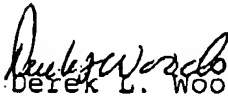
²It is noted that Applicant has filed with the petition copies of papers received from this Office; however, there is no assertion that the papers filed with the instant petition constitute Applicant's file jacket and docket records. As such, a copy of the file jacket and docket records where the non-received Notice would have been docketed and entered had it been received, is required.

By mail: Mail Stop PETITIONS
Commissioner for Patents
Post Office Box 1450
Alexandria, VA 22313-1450

By hand: Customer Service Window
Mail Stop Petitions
Randolph Building
401 Dulany Street
Alexandria, VA 22314

By fax: (571) 273-8300
ATTN: Office of Petitions

Any questions concerning this matter may be directed to the undersigned at (571) 272-3232.


Derek L. Woods
Attorney
Office of Petitions

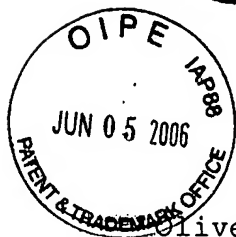
COPY OF THE FILE JACKET



UNITED STATES PATENT AND TRADEMARK OFFICE

LAST POC/CONT/CONTINUATION
From USPTO (checked)

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Oliver Ralf Petri
Avda. Europa 42-Local
A-Pozuelo De Alarcon
Madrid 28224 ES SPAIN

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APR 12 2006

OFFICE OF PETITIONS

In re Application of
Oliver Ralf Petri
Application No. 10/501,085
Filed: July 9, 2004
Title of Invention:
MICROWAVE MIXER/DRYER REACTOR FOR
INDUSTRIAL USE

:
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: PETITION
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Further correspondence with respect to this matter should be addressed as follows:

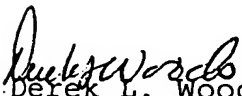
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By hand: Customer Service Window
Mail Stop Petitions
Randolph Building
401 Dulany Street
Alexandria, VA 22314

By fax: (571) 273-8300
ATTN: Office of Petitions

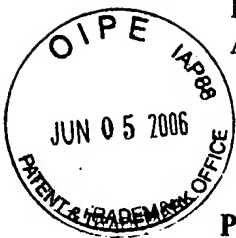
Any questions concerning this matter may be directed to the undersigned at (571) 272-3232.


Derek L. Woods
Attorney
Office of Petitions

DOC. 2

USPTO

Mail Stop Petition
COMMISSIONER FOR PATENTS
P.O. Box 1450,
Alexandria, VA 22313-1450



COPY of THE
PETITION of REVIVAL
SENT TO USPTO
Feb 27th, 2006

**PETITION TO REVIVE AN APPLICATION FOR PATENT ABANDONED
UNINTENTIONALLY (Under 37 CFR 1.137 (b))**

Patent Appl No 10/501,085
Inventor- Ralf Oliver Petri
Art Unit 3749
Examiner LU, JIPING

In relation to the patent mentioned no 10/501,085 we are attaching the following documents:

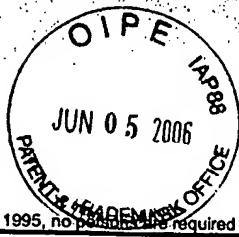
*PTO/SB/64 (10-05): PETITION FOR REVIVAL OF AN APPLICATION FOR
PATENT ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137 (b)

*PTO-2038 (12-2005): Credit Card Payment Form

Thank you very much for your time and attention.

Respectfully

Oliver Ralf Petri



Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it displays a valid OMB control number.

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

**PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT
ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(b)**

Docket Number (Optional)

First named inventor: Ralf Oliver Petri

Application No.: 10/501,085

Art Unit: 3749

Filed: 07-09-2004

Examiner: LU, Jiping

Title: Microwave mixer/dryer reactor for industrial use

Attention: Office of Petitions
Mail Stop Petition
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450.
FAX (571) 273-8300

NOTE: If information or assistance is needed in completing this form, please contact Petitions Information at (571) 272-3282.

The above-identified application became abandoned for failure to file a timely and proper reply to a notice or action by the United States Patent and Trademark Office. The date of abandonment is the day after the expiration date of the period set for reply in the office notice or action plus an extensions of time actually obtained.

APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION

NOTE: A grantable petition requires the following items:

- (1) Petition fee;
- (2) Reply and/or issue fee;
- (3) Terminal disclaimer with disclaimer fee - required for all utility and plant applications filed before June 8, 1995; and for all design applications; and
- (4) Statement that the entire delay was unintentional.

1. Petition fee

☒ Small entity-fee \$ 750.00 (37 CFR 1.17(m)). Applicant claims small entity status. See 37 CFR 1.27.

☐ Other than small entity - fee \$ _____ (37 CFR 1.17(m))

2. Reply and/or fee

A. The reply and/or fee to the above-noted Office action in the form of Fax Letter (identify type of reply):

☐ has been filed previously on _____
☒ is enclosed herewith.

B. The issue fee and publication fee (if applicable) of \$ 1000.00 SMALL ENTITY

☐ has been paid previously on _____
☒ is enclosed herewith.

[Page 1 of 2]

This collection of information is required by 37 CFR 1.137(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

3. Terminal disclaimer with disclaimer fee

- ☐ Since this utility/plant application was filed on or after June 8, 1995, no terminal disclaimer is required.
- ☐ A terminal disclaimer (and disclaimer fee (37 CFR 1.20(d)) of \$ _____ for a small entity or \$ _____ for other than a small entity) disclaiming the required period of time is enclosed herewith (see PTO/SB/63).

4. STATEMENT: The entire delay in filing the required reply from the due date for the required reply until the filing of a grantable petition under 37 CFR 1.137(b) was unintentional. [NOTE: The United States Patent and Trademark Office may require additional information if there is a question as to whether either the abandonment or the delay in filing a petition under 37 CFR 1.137(b) was unintentional (MPEP 711.03(c), subsections (III)(C) and (D)).]

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.


Signature

Feb 24th, 2006

Date

Ralf Oliver Petri

Typed or printed name

Avda Europa 42-Local A Pozuelo De Alarcon, Madrid 28224, Spain,

Address

Registration Number, if applicable

0034-91-650-2475

Telephone Number

Enclosures: ☒ Fee Payment

☒ Reply

☐ Terminal Disclaimer Form

☒ Additional sheets containing statements establishing unintentional delay

☐ Other: _____

Address

CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR 1.8(a)]

I hereby certify that this correspondence is being:

- ☐ Deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Petition, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.
- ☒ Transmitted by facsimile on the date shown below to the United States Patent and Trademark Office as (571) 273-8300.

Feb 27th, 2006

Date

Signature

Joel A Morrow

Typed or printed name of person signing certificate



DATA CITED IN THIS COPY BY
SECURITY & PRIVACY REASONS.

PTO-2038 (12-2005)

Approved for use through 02/28/2006. OMB 0651-0043

United States Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

United States Patent and Trademark Office

Credit Card Payment Form

Please Read Instructions before Completing this Form

Credit Card Information

Credit Card Type: ☒ Visa ☐ MasterCard ☐ American Express ☐ Discover

Credit Card Account #: [REDACTED]

Credit Card Expiration Date: [REDACTED]

Name as it Appears on Credit Card: [REDACTED]

Payment Amount: \$ (US Dollars): 1750.00+ any additional charge if required

Cardholder Signature: [REDACTED] Date: Feb 24th 2006

Refund Policy: The USPTO may refund a fee paid by mistake or in excess of that required. A change of purpose after the payment of a fee will not entitle a party to a refund of such fee. The USPTO will not refund amounts of \$25.00 or less unless a refund is specifically requested and will not notify the payor of such amounts (37 CFR 1.26). Refund of a fee paid by credit card will be issued as a credit to the credit card account to which the fee was charged.

Service Charge: There is a \$50.00 service charge for processing each payment refused (including a check returned "unpaid") or charged back by a financial institution (37 CFR 1.21 (m)).

Credit Card Billing Address

Street Address 1: [REDACTED]

Street Address 2:

City: Barcelona

State/Province:

Zip/Postal Code: [REDACTED]

Country: Spain

Daytime Phone #: [REDACTED]

Fax #: [REDACTED]

Request and Payment Information

Description of Request and Payment Information:

Pet. Revive Aband. Patent Unint. + Issue fee+ Pub fee (small entity)

☒ Patent Fee

☐ Patent Maintenance Fee

☐ Trademark Fee

☐ Other Fee

Application No.
10/501,085

Application No.

Application No.

IDON Customer No.

Patent No.

Patent No.

Registration No.

Attorney Docket No.

Identify or Describe Mark

If the cardholder includes a credit card number on any form or document other than the Credit Card Payment Form, the United States Patent and Trademark Office will not be liable in the event that the credit card number becomes public knowledge.

USPTO

COMMISSIONER FOR PATENTS

P.O. Box 1450,
Alexandria, VA 22313-1450

Feb 27th, 2006

**PETITION TO WITHDRAW HOLDING OF ABANDONMENT BASED ON
FAILURE TO RECEIVE OFFICE ACTION (NOTICE OF ALLOWANCE AND
FEE(S) DUE WAS NEVER RECEIVED)**

Patent Appl No 10/501,085

Inventor- Ralf Oliver Petri

Art Unit 3749

Examiner LU, JIPING

DOC. 1 → On 12/16/05 (date mailed) we recieved an Office communication: NOTICE OF
pages ABANDONMENT with respect to the patent cited above indicating that the reason for
abandonment was the applicant's failure to timely pay he required issue fee and
publication fee, if applicable , within the statutory period of three months from the
mailing date of the Notice of Allowance (PTOL-85). And the issue fee and publication
fee , if applicable, was not received.

DOC. 2 The last Office communication we received from The USPTO before 12/16/05 (Notice
(2 pages) of Abandonment (PTOL- 1432) was dated 2/11/2005: " NOTICE OF ACCEPTANCE
OF APPLICATION UNDER 35U.S.C. 371 and 37 CFR 1.495 about the international
application of PCT/ES02/00321 had met the requirements of 35 U.S.C. 371, and was
Accepted for national patentability examination in the United States Patent and
Trademark Office.

As a consequence we never received the Notice of Allowance (PTOL-85).

DOC. 3 As an answer to the communication of 12/16/2005, received on Jan 12th, 2006, and on
Jan 13th, 2006, we sent a fax to The USPT Office in which we mentioned the lack of
receiving of the Notice of Allowance. Inevitably because of not receiving said
communication we could not proceed in sufficient time and way to carry out the
payment of the Issue fee and the Publication fee, if applicable.

As of today we still have not received any notification about the cause or reason for not
receiving the Notice of Allowance.

DOC. 4 The last notification from The USPT Office is 02/03/06 where the cause of abandoment
(2 pages) of the patent in question is the no payment of the Issue fee. I reiterate that the cause of
the omission of payemnt is due to the lack of communication Notice of Allowance.

**WE ASK THAT YOU PLEASE GRANT THIS PETITION AND REMAIL THE
OFFICE ACTION (Notice of Allowance).**



IN CASE OF ACCEPTANCE OF THIS PETITION OF REVIVAL WE ASK THAT YOU PLEASE RETURN THE AMOUNT OF \$ 750.00 (small entity) PAID FOR PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137 (b).

Given the number of communications (e-mails, phone calls, etc.) and not receiving a reply about the obligatory payment about the PUBLICATION FEE (\$ 300) for small entities we are proceeding with the payment and in case it is not applicable for small entities we ask that you please return the fee.

Thank you very much for your time and attention.

Respectfully

Oliver Ralf Petri



UNITED STATES PATENT AND TRADEMARK OFFICE

Doc. 1 (2 pages)

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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P.O. Box 1450
Alexandria, Virginia 22313-1450
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/501,085	07/09/2004	Ralf Oliver Petri		3619

7590

12/16/2005

Oliver Ralf Petri
Avda. Europa 42-Local
A-Pozuelo De Alarcon
Madrid, 28224
SPAIN

EXAMINER

LU, JIPING

ART UNIT

PAPER NUMBER

3749

DATE MAILED: 12/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.



Notice of Abandonment

Application No.

10/501,085

Examiner

LU

Applicant(s)

Petri

Art Unit

3749

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

This application is abandoned in view of:

☐ Applicant's failure to timely file a proper reply to the Office letter mailed on ____.

(a) ☐ A reply was received on ____ (with a Certificate of Mailing or Transmission dated ____), which is after the expiration of the period for reply (including a total extension of time of ____ month(s)) which expired on ____.

(b) ☐ A proposed reply was received on ____, but it does not constitute a proper reply under 37 CFR 1.113 (a) to the final rejection.

(A proper reply under 37 CFR 1.113 to a final rejection consists only of: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114).

(c) ☐ A reply was received on ____ but it does not constitute a proper reply, or a bona fide attempt at a proper reply, to the non-final rejection. See 37 CFR 1.85(a) and 1.111. (See explanation in box 7 below).

(d) ☐ No reply has been received.

2. ☒ Applicant's failure to timely pay the required issue fee and publication fee, if applicable, within the statutory period of three months from the mailing date of the Notice of Allowance (PTOL-85).

(a) ☐ The issue fee and publication fee, if applicable, was received on ____ (with a Certificate of Mailing or Transmission dated ____), which is after the expiration of the statutory period for payment of the issue fee (and publication fee) set in the Notice of Allowance (PTOL-85).

(b) ☐ The submitted fee of \$ ____ is insufficient. A balance of \$ ____ is due.

The issue fee required by 37 CFR 1.18 is \$ _____. The publication fee, if required by 37 CFR 1.18(d), is \$ ____.

(c) ☒ The issue fee and publication fee, if applicable, has not been received.

3. ☐ Applicant's failure to timely file corrected drawings as required by, and within the three-month period set in, the Notice of Allowability (PTO-37).

(a) ☐ Proposed corrected drawings were received on ____ (with a Certificate of Mailing or Transmission dated ____), which is after the expiration of the period for reply.

(b) ☐ No corrected drawings have been received.

4. ☐ The letter of express abandonment which is signed by the attorney or agent of record, the assignee of the entire interest, or all of the applicants.

5. ☐ The letter of express abandonment which is signed by an attorney or agent (acting in a representative capacity under 37 CFR 1.34(a)) upon the filing of a continuing application.

6. ☐ The decision by the Board of Patent Appeals and Interference rendered on ____ and because the period for seeking court review of the decision has expired and there are no allowed claims.

7. ☐ The reason(s) below:

slk

Petitions to revive under 37 CFR 1.137(a) or (b), or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term.



Doc. 2
(2 pages)

Page 1 of 2



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Alexandria, Virginia 22313-1450
www.uspto.gov

U.S. APPLICATION NUMBER NO. 10/501,085	FIRST NAMED APPLICANT Ralf Oliver Petri	ATTY. DOCKET NO.
---	--	------------------

INTERNATIONAL APPLICATION NO. PCT/ES02/00321

I.A. FILING DATE 06/28/2002	PRIORITY DATE 01/16/2002
--------------------------------	-----------------------------

Oliver Ralf Petri
Avda. Europa 42-Local
A-Pozuelo De Alarcon
Madrid, 28224
SPAIN

CONFIRMATION NO. 3619
371 ACCEPTANCE LETTER



OC000000015124526

Date Mailed: 02/11/2005

NOTICE OF ACCEPTANCE OF APPLICATION UNDER 35 U.S.C 371 AND 37 CFR 1.495

The applicant is hereby advised that the United States Patent and Trademark Office in its capacity as a Designated / Elected Office (37 CFR 1.495), has determined that the above identified international application has met the requirements of 35 U.S.C. 371, and is ACCEPTED for national patentability examination in the United States Patent and Trademark Office.

The United States Application Number assigned to the application is shown above and the relevant dates are:

<u>07/09/2004</u> DATE OF RECEIPT OF 35 U.S.C. 371(c)(1), (c)(2) and (c)(4) REQUIREMENTS	<u>07/09/2004</u> DATE OF COMPLETION OF ALL 35 U.S.C. 371 REQUIREMENTS
--	--

A Filing Receipt (PTO-103X) will be issued for the present application in due course. **THE DATE APPEARING ON THE FILING RECEIPT AS THE " FILING DATE" IS THE DATE ON WHICH THE LAST OF THE 35 U.S.C. 371 (c)(1), (c)(2) and (c)(4) REQUIREMENTS HAS BEEN RECEIVED IN THE OFFICE. THIS DATE IS SHOWN ABOVE.** The filing date of the above identified application is the international filing date of the international application (Article 11(3) and 35 U.S.C. 363). Once the Filing Receipt has been received, send all correspondence to the Group Art Unit designated thereon.

The following items have been received:

- Indication of Small Entity Status
- Copy of the International Application filed on 07/09/2004
- English Translation of the IA filed on 07/09/2004
- Copy of the International Search Report filed on 07/09/2004
- Oath or Declaration filed on 07/09/2004
- Request for Immediate Examination filed on 07/09/2004
- U.S. Basic National Fees filed on 07/09/2004
- Priority Documents filed on 07/09/2004

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

FRANCINE YOUNG

Telephone: (703) 308-9140 EXT 215

PART 1 - ATTORNEY/APPLICANT COPY

FORM PCT/DO/EO/903 (371 Acceptance Notice)

Doc. 3

PETITION

US Application Number: 10/501,085
First Named Applicant: Ralf Oliver Petri
International Application Number: PCT/ES02/00321
I.A. Filing Date: 06/28/2002
Priority Date: 01/16/2002

ATTN.

MS. JIPING LU

PRIMARY EXAMINER

ART UNIT: 3749



Jan 12th, 2006:

I have received notification from The USPTO from the examiner LU, JIPING from the ART UNIT 3749; Notification Of Abandonment for reason # 2 (PTOL-85), Applicant failure to pay the required issue fee and publication fee, if applicable, within the statutory period of three months from the mailing date of the Notice of Allowance and the issue fee and publication fee, if applicable, has not been received.

I am surprised because I didn't receive the allowance notification. I don't know what could have happened. My intention has always been to maintain this patent. I would like to know what I have to do in this situation. And my intention is to pay the expenses involved.

I would appreciate it if you can tell me how to resolve this embarrassing situation. Well the motive of not making the corresponding payment has been the non-reception of the notification by The USPTO. I don't know if the responsibility is with The USPTO or The US Mail or The Spanish Mail. But what is sure is that I have never received this notification.

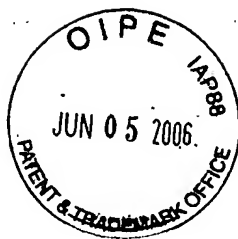
I think it is understandable that if I weren't interested in this patent I wouldn't be in contact with The USPTO.

If you need to contact me please do so at the following telephone 0034-91-650-2475 or fax number 0034-91-650-6355

In any case I would like to speak to somebody about this matter to resolve it as soon as possible. Quite honestly I am very worried about the situation.

Oliver Ralf Petri

USPTO
Commissioner For Patents
PO Box 1450
Alexandria, Virginia 22313-1450



US Appl No 10/501,085

First Named Applicant: Ralf Oliver Petri

Intl Appl No: PCT/ES02/00321

I.A. Filing Date 06/28/2002

Priority Date: 01/16/2002

Feb 21st, 2006

Attn: Ms Jiping Lu
Primary Examiner
Art Unit: 3749

Referring to our conversation this afternoon about patent abandonment and about mailing the petition I have decided to fax it after checking the fax number.

This is the second fax I have sent repeating the one from Jan 12th, 2006 sent and of which I have as yet not received a response.

You will find the original fax attached dated Jan 12th, 2006.

I would appreciate it if you would please look into this matter and let me know something as soon as possible.

Thank you for your time and attention.

Sincerely

Joel

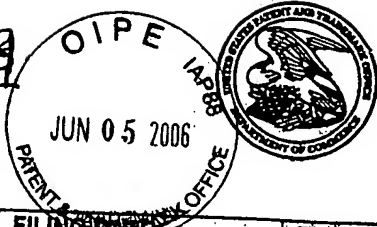
Joel A Morrow

Phone 0034-93-342-6820
0034-91-650-2475

Fax 0034-91-650-6355

PS Is there a time limit for the petition.
Please confirm to me the notice of allowance.

Doc. 9
2 page



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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
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10/501, 085

EXAMINER

ART UNIT	PAPER
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01262006

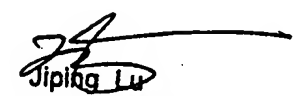
DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

This application was abandoned for failure to pay issue fee. The Notice of ABandonment mailed on 12/16/2005 clearly set forth how to revive this abandoned application. Applicant's attention is directed to Paragraph 2 of the Attachment of Notice of Abandonment mailed on 12/16/2005 (also see page 4 of applicant's fax sent 1/13/2006).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jiping Lu whose telephone number is 571 272 4878. The examiner can normally be reached on Monday-Friday, 9:00 AM - 5:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, EHUD GARTENBERG can be reached on 571 272-4828. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Jiping Lu
Primary Examiner
Art Unit: 3749



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JUN 05 2006

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APPLICATION NO. 10/501,085	7590 07/09/2004	FIRST NAMED INVENTOR Ralf Oliver Petri	ATTORNEY DOCKET NO.	CONFIRMATION NO. 3619
-------------------------------	--------------------	---	---------------------	--------------------------

Oliver Ralf Petri
Avda. Europa 42-Local
A-Pozuelo De Alarcon
Madrid, 28224
SPAIN

EXAMINER LU, JIPING

ART UNIT 3749	PAPER NUMBER
------------------	--------------

DATE MAILED: 02/03/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Preliminary Class

204

**LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).



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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/501,085	07/09/2004	1753	540		3	2	1

CONFIRMATION NO. 3619

FILING RECEIPT



OC000000015124525

Oliver Ralf Petri
 Avda. Europa 42-Local
 A-Pozuelo De Alarcon
 Madrid, 28224
 SPAIN

Date Mailed: 02/11/2005

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Ralf Oliver Petri, Madrid, SPAIN;

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/ES02/00321 06/28/2002

Foreign Applications

SPAIN P200200080 01/16/2002

Projected Publication Date: 05/19/2005

Non-Publication Request: No

Early Publication Request: No

** SMALL ENTITY **

Title

Microwave mixer/dryer reactor for industrial use

USPTO
Commissioner For Patents
PO Box 1450
Alexandria, Virginia 22313-1450



US Appl No 10/501,085
First Named Applicant: Ralf Oliver Petri
Intl Appl No: PCT/ES02/00321
I.A. Filing Date 06/28/2002
Priority Date: 01/16/2002

Feb 21st, 2006

Attn: Ms Jiping Lu
Primary Examiner
Art Unit: 3749

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Thank you for your time and attention.

Sincerely

Joel

Joel A. Morrow
Phone 0034-93-342-6820
0034-91-650-2475

Fax 0034-91-650-6355

PS Is there a time limit for the petition.
Please confirm to me the notice of allowance.



US Application Number: 10/501,085
First Named Applicant: Ralf Oliver Petri
International Application Number: PCT/ES02/00321
I.A. Filing Date: 06/28/2002
Priority Date: 01/16/2002

ATTN.
MS. JIPING LU
PRIMARY EXAMINER
ART UNIT: 3749

Jan 12th, 2006:

I have received notification from The USPTO from the examiner LU, JIPING from the ART UNIT 3749; Notification Of Abandonment for reason # 2 (PTOL-85), Applicant failure to pay the required issue fee and publication fee, if applicable, within the statutory period of three months from the mailing date of the Notice of Allowance and the issue fee and publication fee, if applicable, has not been received.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/501,085	07/09/2004	Ralf Oliver Petri		3619
7590 02/03/2006				
Oliver Ralf Petri Avda. Europa 42-Local A-Pozuelo De Alarcon Madrid, 28224 SPAIN				
EXAMINER LU, JIPING				
ART UNIT 3749		PAPER NUMBER		

DATE MAILED: 02/03/2006

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UNITED STATES DEPARTMENT OF COMMERCE

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APPLICATION NO./ CONTROL NO.	FILED DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
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10/501,085

EXAMINER

ART UNIT

PAPER

01262006

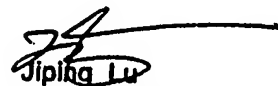
DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

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Jiping Lu
Primary Examiner
Art Unit: 3749



US Application Number: 10/501,085
First Named Applicant: Ralf Oliver Petri
International Application Number: PCT/ES02/00321
I.A. Filing Date: 06/28/2002
Priority Date: 01/16/2002

Jan 12th, 2006:

sent by FAX on
1/13/2006 TO
USPTO

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/501,085	07/09/2004	Ralf Oliver Petri		3619

7590 12/16/2005
Oliver Ralf Petri
Avda. Europa 42-Local
A-Pozuelo De Alarcon
Madrid, 28224
SPAIN

EXAMINER

LU, JIPING

ART UNIT PAPER NUMBER

3749

DATE MAILED: 12/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.



Notice of Abandonment

Application No.	Applicant(s)	
10/501,085	Petri	
Examiner	Art Unit	
LU	3749	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

This application is abandoned in view of:

1. ☐ Applicant's failure to timely file a proper reply to the Office letter mailed on _____.
 - (a) ☐ A reply was received on _____ (with a Certificate of Mailing or Transmission dated _____), which is after the expiration of the period for reply (including a total extension of time of _____ month(s)) which expired on _____.
 - (b) ☐ A proposed reply was received on _____, but it does not constitute a proper reply under 37 CFR 1.113 (a) to the final rejection.
(A proper reply under 37 CFR 1.113 to a final rejection consists only of: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114).
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 - (d) ☐ No reply has been received.
2. ☒ Applicant's failure to timely pay the required issue fee and publication fee, if applicable, within the statutory period of three months from the mailing date of the Notice of Allowance (PTOL-85).
 - (a) ☐ The issue fee and publication fee, if applicable, was received on _____ (with a Certificate of Mailing or Transmission dated _____), which is after the expiration of the statutory period for payment of the issue fee (and publication fee) set in the Notice of Allowance (PTOL-85).
 - (b) ☐ The submitted fee of \$_____ is insufficient. A balance of \$_____ is due.
The issue fee required by 37 CFR 1.18 is \$_____. The publication fee, if required by 37 CFR 1.18(d), is \$_____.
 - (c) ☒ The issue fee and publication fee, if applicable, has not been received.
3. ☐ Applicant's failure to timely file corrected drawings as required by, and within the three-month period set in, the Notice of Allowability (PTO-37).
 - (a) ☐ Proposed corrected drawings were received on _____ (with a Certificate of Mailing or Transmission dated _____), which is after the expiration of the period for reply.
 - (b) ☐ No corrected drawings have been received.
4. ☐ The letter of express abandonment which is signed by the attorney or agent of record, the assignee of the entire interest, or all of the applicants.
5. ☐ The letter of express abandonment which is signed by an attorney or agent (acting in a representative capacity under 37 CFR 1.34(a)) upon the filing of a continuing application.
6. ☐ The decision by the Board of Patent Appeals and Interference rendered on _____ and because the period for seeking court review of the decision has expired and there are no allowed claims.
7. ☐ The reason(s) below:

slk

otions to revive under 37 CFR 1.137(a) or (b), or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term.



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APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/501,085	07/09/2004	Ralf Oliver Petri	

Oliver Ralf Petri
Avda. Europa 42-Local
A-Pozuelo De Alarcon
Madrid, 28224
SPAIN

CONFIRMATION NO. 3619



OC000000016126407

Title: Microwave mixer/dryer reactor for industrial use

Publication No. US-2005-0118077-A1

Publication Date: 06/02/2005

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publicly available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently <http://www.uspto.gov/patft/>.

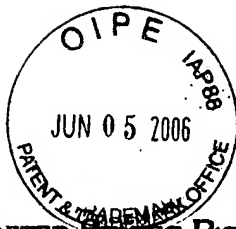
The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Office of Public Records. The Office of Public Records can be reached by telephone at 703-605-4283 or (800) 972-6382, by facsimile at (703) 305-8759, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

~~In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently <http://pair.uspto.gov/>. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.~~

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at Pre-Grant Publication Division, 703-605-4283.

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PCT 98 US



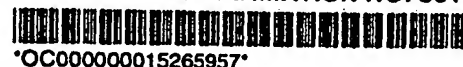
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APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
10/501,085	07/09/2004	Ralf Oliver Petri	

Oliver Ralf Petri
Avda. Europa 42-Local
A-Pozuelo De Alarcon
Madrid, 28224
SPAIN

CONFIRMATION NO. 3619



OC000000015265957

Date Mailed: 02/24/2005

NOTICE OF NEW OR REVISED PROJECTED PUBLICATION DATE

The above-identified application has a new or revised projected publication date. The current projected publication date for this application is 06/02/2005. If this is a new projected publication date (there was no previous projected publication date), the application has been cleared by Licensing & Review or a secrecy order has been rescinded and the application is now in the publication queue.

If this is a revised projected publication date (one that is different from a previously communicated projected publication date), the publication date has been revised due to processing delays in the USPTO or the abandonment and subsequent revival of an application. The application is anticipated to be published on a date that is more than six weeks different from the originally-projected publication date.

More detailed publication information is available through the private side of Patent Application Information Retrieval (PAIR) System. The direct link to access PAIR is currently <http://pair.uspto.gov>. Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at (703) 305-3028.

Questions relating to this Notice should be directed to the Office of Patent Publication at (703) 305-8283.

PART 1 - ATTORNEY/APPLICANT COPY



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APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
10/501,085	07/09/2004	Ralf Oliver Petri	

Oliver Ralf Petri
Avda. Europa 42-Local
A-Pozuelo De Alarcon
Madrid, 28224
SPAIN

CONFIRMATION NO. 3619



OC000000015159094

Date Mailed: 02/10/2005

NOTICE OF NEW OR REVISED PROJECTED PUBLICATION DATE

The above-identified application has a new or revised projected publication date. The current projected publication date for this application is 05/19/2005. If this is a new projected publication date (there was no previous projected publication date), the application has been cleared by Licensing & Review or a secrecy order has been rescinded and the application is now in the publication queue.

If this is a revised projected publication date (one that is different from a previously communicated projected publication date), the publication date has been revised due to processing delays in the USPTO or the abandonment and subsequent revival of an application. The application is anticipated to be published on a date that is more than six weeks different from the originally-projected publication date.

More detailed publication information is available through the private side of Patent Application Information Retrieval (PAIR) System. The direct link to access PAIR is currently <http://pair.uspto.gov>. Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at (703) 305-3028.

Questions relating to this Notice should be directed to the Office of Patent Publication at (703) 305-8283.

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U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
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10/501,085

Ralf Oliver Petri

INTERNATIONAL APPLICATION NO.

PCT/ES02/00321

I.A. FILING DATE	PRIORITY DATE
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06/28/2002

01/16/2002

Oliver Ralf Petri
 Avda. Europa 42-Local
 A-Pozuelo De Alarcon
 Madrid, 28224
 SPAIN

CONFIRMATION NO. 3619

371 ACCEPTANCE LETTER



OC000000015124526

Date Mailed: 02/11/2005

NOTICE OF ACCEPTANCE OF APPLICATION UNDER 35 U.S.C 371 AND 37 CFR 1.495

The applicant is hereby advised that the United States Patent and Trademark Office in its capacity as a Designated / Elected Office (37 CFR 1.495), has determined that the above identified international application has met the requirements of 35 U.S.C. 371, and is ACCEPTED for national patentability examination in the United States Patent and Trademark Office.

The United States Application Number assigned to the application is shown above and the relevant dates are:

07/09/200407/09/2004

DATE OF RECEIPT OF 35 U.S.C. 371(c)(1), (c)(2) and
 (c)(4) REQUIREMENTS

DATE OF COMPLETION OF ALL 35 U.S.C. 371
 REQUIREMENTS

A Filing Receipt (PTO-103X) will be issued for the present application in due course. **THE DATE APPEARING ON THE FILING RECEIPT AS THE " FILING DATE" IS THE DATE ON WHICH THE LAST OF THE 35 U.S.C. 371 (c)(1), (c)(2) and (c)(4) REQUIREMENTS HAS BEEN RECEIVED IN THE OFFICE. THIS DATE IS SHOWN ABOVE.** The filing date of the above identified application is the international filing date of the international application (Article 11(3) and 35 U.S.C. 363). Once the Filing Receipt has been received, send all correspondence to the Group Art Unit designated thereon.

The following items have been received:

- Indication of Small Entity Status
- Copy of the International Application filed on 07/09/2004
- English Translation of the IA filed on 07/09/2004
- Copy of the International Search Report filed on 07/09/2004
- Oath or Declaration filed on 07/09/2004
- Request for Immediate Examination filed on 07/09/2004
- U.S. Basic National Fees filed on 07/09/2004
- Priority Documents filed on 07/09/2004

First communication from USPTO
 PET / AC 02 / 10000

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

FRANCINE YOUNG

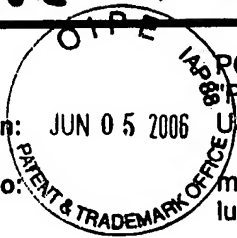
Telephone: (703) 308-9140 EXT 215

PART 1 - ATTORNEY/APPLICANT COPY

FORM PCT/DO/EO/903 (371 Acceptance Notice)

OLIVER R. PETRI PCT 98 / US

Asunto:



PCT98/US OLIVER R. PETRI #10/501, 085 (USPTO) DECISIÓN : DESESTIMACIÓN
"PETITION OF REVIVAL" VTO (JUNIO 12, 2006)

Ubicación:

JUN 05 2006

USPTO

Comienzo:

miércoles 12/4/2006 0:00

Fin:

lunes 12/6/2006 0:00

Periodicidad:

(no disponible)

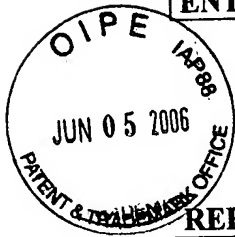
MUY IMPORTANTE

REF. INTERNA : PCT 98 / US OLIVER R. PETRI

PRESENTAR LA PETICIÓN DE RECONSIDERACIÓN SOBRE DESESTIMACIÓN DE "
PETITION OF REVIVAL"

COMUNICACIÓN USPTO (OFICINA DE OETICIONES -Abril 12, 2006)

COPY OF THE FOLLOWING OF THE STEPS OF
PCT 98/US (Application no 10/501,085) kept
near
file



ENTRADA EN FASE NACIONAL EN USA PCT 98/US (PCT/ES02/00321)

REF. EXPEDIENTE : PCT 98/US

Solicitante	Oliver R. Petri
Solicitud	P200200080 (16 Enero 2002)
Prioridad Española	
07/09/2004	Entrada en USA : SOLICITUD #10/501, 085
02/11/2005	-ENVÍO USPTO RECIBO DE LA SOLICITUD -USPTO CONFIRMA ADMISIÓN DE SOLIC.
02/10/2005	AVISO de USPTO de NUEVA o REVISADA FECHA de PUBLICACIÓN PROYECTADA(05/19/2005)
02/24/2005	AVISO de USPTO de NUEVA o REVISADA FECHA de PUBLICACIÓN PROYECTADA(06/02/2005)
	USPTO AVISA de la PUBLICACIÓN SOLICITUD: Nº Publicación: US-2005-0118077-A1 Fecha Publicación: 06/02/2005
12/16/2005	Recibo el 01/12/2006 COMUNICACIÓN de USPTO de Abandono de Solicitud : Motivos: No pago de "Issue fee " y "Publication fee"
01/12/2006	Respuesta (confirmada por fax a USPTO en fecha 01/13/2006) a Comunicación de USPTO referente a ABANDONO DE LA PATENTE (12/16/2005), manifestando el NO RECIBO DE COMUNICACIÓN DE USPTO de el "NOTICE OF ALLOWANCE".
02/03/2006	COMUNICACIÓN de USPTO recibida el 02/20/2006, haciendo referencia a el "Notice of Abandonment de fecha de correo 12/16/2005
02/21/2006	FAX a USPTO el 02/21/2006 sobre la falta de respuesta a la carta de fecha 01/12/2006 remitida a USPTO y la conversación telefónica mantenida el 02/21/2006 relativa al abandono de la patente y la "petition".
02/27/2006	ENVÍO A USPTO DE "PETITION FOR REVIVAL"
04/12/2006	COMUNICACIÓN de DECISIÓN DESESTIMACIÓN de la OFICINA DE PETICIONES de USPTO : *****2 MESES PARA CONTESTAR
06/12/2006	Vencimiento para "REQUEST FOR RECONSIDERATION OF PETITION" (APORTAR COPIAS DE DOCUMENTOS y DECLARACIONES)

Doc. 10

Doc. 9

Doc. 8

Doc. 7

Doc. 6

Doc. 5

Doc. 4

Doc. 3

Doc. 2

Doc. 1

COPY CA 114E APPLICATION
JUN 05 2006 PETRI

FORM PTO-1390 (REV. 10-2003)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER	
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371				U.S. APPLICATION NO. (If known, see 37 CFR 1.5	
INTERNATIONAL APPLICATION NO.		INTERNATIONAL FILING DATE		PRIORITY DATE CLAIMED	
PCT/ES02/00321		06/28/2002		01/16/2002	
TITLE OF INVENTION MICROWAVE MIXER/DRYER/REACTOR FOR INDUSTRIAL USE					
APPLICANT(S) FOR DO/EO/US OLIVER PETRI, Ralf					

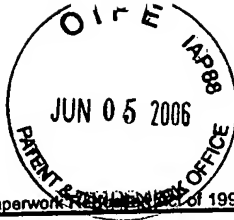
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☐ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☒ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☒ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☐ A preliminary amendment.
14. ☐ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information:

International Search Report,
Credit Card Payment Form PTO-2038



PTO/SB/01 (08-03)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**

☒ Declaration Submitted With Initial Filing OR ☐ Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

Attorney Docket Number	
First Named Inventor	Ralf OLIVER PETRI
COMPLETE IF KNOWN	
Application Number	
Filing Date	
Art Unit	
Examiner Name	

I hereby declare that:

Each inventor's residence, mailing address, and citizenship are as stated below next to their name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

MICROWAVE MIXER/DRYER/REACTOR FOR INDUSTRIAL USE

(Title of the Invention)

the specification of which

☐ is attached hereto

OR

☒ was filed on (MM/DD/YYYY) 06/28/2002 as United States Application Number or PCT International

Application Number PCT/ES02/00321 and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				Yes	No
P200200080	SPAIN	01/16/2002	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

(Page 1 of 2)

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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DECLARATION — Utility or Design Patent Application

Direct all correspondence to: ☐ Customer Number: OR ☒ Correspondence address below

Name **OLIVER RALF PETRI**

Address **Avda. Europa 42-Local A-POZUELO DE ALARCÓN**

City **MADRID** State **MADRID** ZIP **28224**

Country **SPAIN** Telephone **+34 915102736** Fax **+34 91510 2736**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR:

☒ A petition has been filed for this unsigned inventor

Given Name (first and middle [if any]) **RALF**

Family Name or Surname **OLIVER PETRI**

Inventor's Signature 

Date **07/06/2004**

Residence: City **Madrid**

State **Madrid**

Country **SPAIN**

Citizenship **SPANISH**

Mailing Address **Avda. Europa 42-Local A-POZUELO DE ALARCÓN**

City **Madrid** State **Madrid** ZIP **28224** Country **SPAIN**

NAME OF SECOND INVENTOR:

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])

Family Name or Surname

Inventor's Signature

Date

Residence: City

State

Country

Citizenship

Mailing Address

City

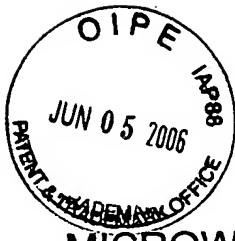
State

ZIP

Country



Additional inventors or a legal representative are being named on the supplemental sheet(s) PTO/SB/02A or 02LR attached hereto.



MICROWAVE MIXER-DRYER-REACTOR FOR INDUSTRIAL USE

5 OBJECT OF THE INVENTION

10 Microwave mixer-dryer-reactor for industrial use, designed for mixing all types of products, solids with solids, solids with liquids and solids with very tacky fluids, also obtaining through product mixing the subsequent drying, as well as the start of a reaction when it is thus required by a massive discharge of microwaves proceeding from a generator especially attached to the spindle of the machine, being possible to use just one of the functions or any combination of them.

15 BACKGROUND OF THE INVENTION

20 In the current industry the machines and process necessary to carry out any of the three processes mentioned are available; thus, there are a great variety of both horizontal and vertical mixers, generally composed of a cylindrically shaped chamber in which the products to be mixed are deposited. In the centre of said chamber a spindle is introduced, which may have blades attached, or which may have the shape of an endless screw, among other different constructive arrangements, depending on the characteristics of the product to be mixed. Said spindle is attached onto a motor, which upon turning makes the spindle mix the product. Said cylindrical chamber often
25 includes two areas or a double sleeve, one in which the products to be mixed are deposited, and another one, outside the first, through which a hot or cold liquid is sent, depending on whether one wishes to warm or cool the products to be mixed.

As examples of this type of mixers, the following are available:

30 European Patent Application n° 90107482. Dryer-mixer for producing and elaborating dry, humid, pastes, and fluid products.

European Patent Application n° 93120513. Dryer mixer

35 European Patent Application n° 94108192. Mixer-granulator-dryer-container.

40 The drying process is based on eliminating water or other liquids carried by the products. In order to eliminate them different mechanical processes have been developed, through warm air, etc. as well as electrical ones, for example by way of microwaves or radio frequency. The following patents are known:

European Patent Application n° 96914119. Crystalline substance drying facility.

45 European Patent Application n° 96923192. Aggressive drying by convection in a tapered screw mixer/dryer.

50 European Patent Application n° 8303667. Microwave treatment mechanism for eliminating dampness from articles.

The third process, or that of starting the reaction, is obtained by controlling the temperature of the mixture through controlling the power of the microwaves. In the case of a double chamber mixer dryer, it is carried out by sending more or less liquid through the second chamber, thus warming the mixture to the necessary temperature for its reaction. In the case of a microwave dryer the reaction is started by adjusting the power and frequency of the microwaves thus managing to increase the temperature for its reaction and intensifying the interaction of the microwaves in the material; the action of the reactants is influenced by the microwave emission frequency, said frequency being variable within all of the margin of microwaves.

As can be appreciated in the existing systems, the three processes that are the object of the present invention are effectuated independently, there being no machine that can carry out the mixing, microwave drying and starting of the chemical reactions together in one single continuous or discontinuous process, the unification of the three processes in one being what makes this invention innovative.

DESCRIPTION OF THE INVENTION

The present invention relates to a machine whose purpose is to unify in a single production process the processes that until now have been carried out separately, which are product mixing, drying by way of a microwave generator and the start of a reaction when the product thus requires, obtaining in this way production cost reduction by decreasing product manipulation, increasing their quality due to improved mixing, avoiding contamination by carrying out the whole process in a single machine, reducing cleaning product costs and labour and also avoiding in this way environmental pollution, enabling the three processes to be carried out continuously or discontinuously.

A machine has been built that is provided with all of the mechanisms of conventional mixers, adding all of the elements necessary to effectuate drying and starting the reaction due to the incorporation of a microwave generator and to the modifications effectuated in the mixing spindle, on which mixing blades are attached, in order to conduct the microwaves that are generated. In addition, said machine is provided with all of the security systems needed to avoid possible accidents by microwave dispersion.

The machine of invention has a bed or machine support on which the main motor is arranged, whose power will depend on the mass and physical properties of the product to be mixed; a clutch is coupled onto said motor, and this in turn is coupled to a reducer also designed for the purpose it is to carry out. Between the reducer and the mixing spindle an elastic apparatus is attached, thus composing all of these parts the motor and traction group for the mixing spindle.

Coupled to said bed and centred with the mixing spindle is the mixing drum, of horizontal cylindrical shape, with double sleeve and made of steel of different qualities depending on the requirements of the process. The products to be mixed are loaded through a loading mouth located on the upper part of the mixing drum, and a liquid can be sent through the double sleeve to cool or warm the mixture. In addition, this mixing drum is provided with a discharge mouth for discharging the product on its lower part,

with an inspection door, located adequately on the drum, with a system for adding liquids to the mixture when needed, and with an airing mouth for airing the mixture.

5 All of the components coupled to the mixing drum, such as the loading and discharge mouths, are provided with locks or valves with a security system which, in case one of them should be opened during the process, makes the microwave generator stop immediately, automatically interrupting the process and preventing the dispersion of microwaves in every case.

10 One of the main components of the machine that is the object of the present invention is the mixing spindle, coupled on one side of the reducer box and on the other rested on the end of the mixing drum. This is the element in which all of the maximum efforts are generated since by way of the mixing blades that are attached to it must mix all of the products within the mixing drum. In order to ensure effective mixing, one or
15 several mixing intensifiers are attached, made up of blades mounted on a spindle that is moved by a motor through an elastic assembly, and which are mounted on the sides of the drum, said blades staying inside said drum and in contact with the product.

20 In order for the microwaves to enter into contact with the mixture and to warm it, thus eliminating water or solvents or making the mixture react, the mixing spindle has been designed so that it is hollow inside and includes holes that radially pass through to its outer surface, of different sizes, arranged in a regular distribution along the spindle and with circular or rectangular shapes. This hollow spindle is open at one of its ends in order to allow the entry of the microwaves and closed at the opposite end in order to
25 prevent said microwaves from dispersing unduly.

A microwave generating apparatus mounted on the open end of the mixing spindle is responsible for sending the microwaves through said spindle, which come out through the holes arranged on it, thus entering into contact with the mixing product.

30 The working sequence is identical for both single load machines and for continuous process machines and is always made up of the following steps.

- 35 - Loading of the material through the different loading mouths, (solids or liquids) in the appropriate proportions or times depending on the products to be mixed.
- Mixing of the loaded product by way of the mixing blades attached to the mixing spindle; said mixing is carried out by making the mixing spindle turn, the turning speed of the same being adjustable in order to thus obtain a homogeneous mixture.
- 40 - Once the mixed products are dried or are made to react upon the microwaves entering into contact with them; these are produced in a microwave generator situated outside of the mixing drum and are sent to the product through the inside of the mixing spindle and coming out of the mixing drum through the radial holes bored in said
45 mixing spindle.
- Once all of these processes are completed, the product is discharged through the discharge mouth.

50 This procedure can be carried out continuously or discontinuously, the first option being used when the material enters continuously without stopping into the mixer, thus producing the mixture, drying, and chemical reaction during the passage of the

material through the machine and discharging the material continuously also at the end of the reaction, through the discharge mouth. In a discontinuous manner, the material is loaded into the machine at once, the drying, chemical reaction, and discharging of all of the material being carried out also in a single process.

5

DETAILED DESCRIPTION OF THE DRAWINGS

10 In order to provide an improved understanding of the present invention, a preferred embodiment is described below of the object of the present invention, based on the attached figures.

15 Figure 1: General view of the mixer and its components.
 Figure 2: View of the locations of the loading mouths and of the intensifiers.
 Figure 3: View of the main spindle and microwave outlets.

PREFERRED EMBODIMENT OF THE INVENTION

20 The machine that is the object of the present invention unifies the three basic processes of a microwave mixer dryer reactor, which are: mixing several products, warming and drying of the product resulting from the mixture, as well as making it
 25 react, and its subsequent discharging, for which a machine has been developed which, although in its basic features it can be considered conventional, includes within it a microwave generator for warming and later drying the product, a completely innovative system in this type of machinery.

30 Thus, the machine of the present invention is composed of four main parts: the bed, the mixing drum, the mixing spindle and the microwave generator.

35 On the bed (1), the mixer dryer mechanism is located, serving said support bed and basis of the rest of the machine, and on it the main electrical motor is mounted (2), which a clutch has been coupled to (3) and to it, a reducer (4); between the reducer and the mixing spindle (6) an elastic assembly (5) is mounted, thus being defined the motor and traction group of the mixing spindle. All of these components, as the rest of the machine, are sized for the amount of material to be mixed and the physical properties of the product.

40 Coupled to said bed (1) and centred to the mixing spindle (6), the mixing drum (7) is located, having a horizontal cylindrical shape and double sleeve, and built of steel; the products to be mixed are loaded in the central part of the mixing drum through a loading mouth (8) located on its upper part. This mixing drum (7) is also provided with
 45 a product discharge mouth (9) on its lower part, with an inspection door, with a liquid adding system (11) for the mixture and with an airing mouth (16) for airing the mixture. All of the components coupled onto the mixing drum (7) such as the mouths for loading (8) and discharge (9), are provided with locks or valves with a security system (12) which, in case of accidental opening of one of the locks, causes an immediate
 50 stopping of the microwave generator, thus interrupting the whole process.

The third component of the machine which is the object of the present invention is the mixing spindle (6), coupled on one side to the reducer box (4) by way of a connection (5) and on the other side, rested on the end of the mixing drum (7); it is the component in which the maximum efforts are made since by way of the mixing blades (14) that are attached to it, and the intensifiers (17), it must mix all of the products inside the mixing drum. It is also the conduct of the microwaves from the generator (13) to the product, said microwaves entering into contact with the product after having passed through the holes (15) bored in the mixing spindle (6). This hollow spindle is open at one of its ends in order to allow microwaves to enter, and closed at the opposite end in order to prevent said microwaves from dispersing unduly.

At the open end of the mixing spindle (6) a microwave generator (13) is assembled. In order for the microwaves to enter into contact with the mixture the mixing spindle (6) has been designed in such a way that it is hollow inside and on whose outer surface pinholes (15) have been made passing through it radially, said holes (15) being of circular shape and said holes (15) being distributed regularly along said mixing spindle (6), so that the microwaves generated by the microwave generator (13) coupled onto one of the ends of said mixing spindle (6) reach the mixing product, thus also eliminating water or solvents.

CLAIMS

- 5 1. Microwave mixer-dryer-reactor for industrial use, characterised in that it is composed of:
- 10 - a horizontal cylindrically shaped, double-sleeved mixing drum (7), which is provided with a loading mouth (8) located on the upper part of said mixing drum (7) where the products to be mixed are introduced, with a discharge mouth (9) for discharging the product, with an inspection door (10) for the product located on the upper part of the mixing drum (7), with a system (11) for adding liquids to the mixture, with intensifiers (17) arranged and inserted radially on said drum (7), and with an airing mouth (16) for airing the mixtures, the loading and discharge mouths (8), (9) having locks or valves with a security system (12) which, in case of accidental opening of said locks or valves, stops the mixer-dryer-reactor and interrupts the process;
 - 20 - a mixing spindle (6) coupled on one side of the reducer (4) through a connection (5) and rested on the other side on the mixing drum (7), said mixing spindle (6) having mixing blades (14) attached, being said mixing spindle (6) in the shape of a hollow tube, closed at one end and open at the other end, through the inside of which microwaves are sent and distributed from the generator (13) to the product, which are introduced through the open end of said mixing spindle (6) and enter into contact with said product through the radial holes (15) bored in the mixing spindle (6);
 - 30 - a support bed (1) for the mixer-dryer-reactor in which the mechanisms, traction motors and connections of said mixer-dryer-reactor are located;
 - 35 - a microwave generator apparatus (13) provided on the open end of the mixing spindle (6) which sends microwaves to the product through the inside of the hollow of said mixing spindle (6).
- 40 2) Microwave mixer-dryer-reactor for industrial use according to claim 1, characterised in that the mixing spindle (6) is provided with some pin holes (15) bored into the outer surface of said mixing spindle (6), said holes (15) having a circular or rectangular shape and said holes (15) being distributed along the mixing spindle (6), so that the microwaves generated by the microwave generator (13) coupled on the open end of said mixing spindle (6) reach the product through said holes (15) of said mixing spindle (6).
- 45

ABSTRACT

The invention relates to a microwave mixer/dryer/reactor for industrial use. The inventive machine has a three-fold purpose, namely to: a) mix solid products with solids, solids with liquids and solids with very viscous fluids; b) dry aforementioned products; and c) initiate reaction between said products by means of suitable microwave discharge from a generator which is specially connected to the shaft of the machine. Said machine can be used to perform one or two of said functions or all the functions together.

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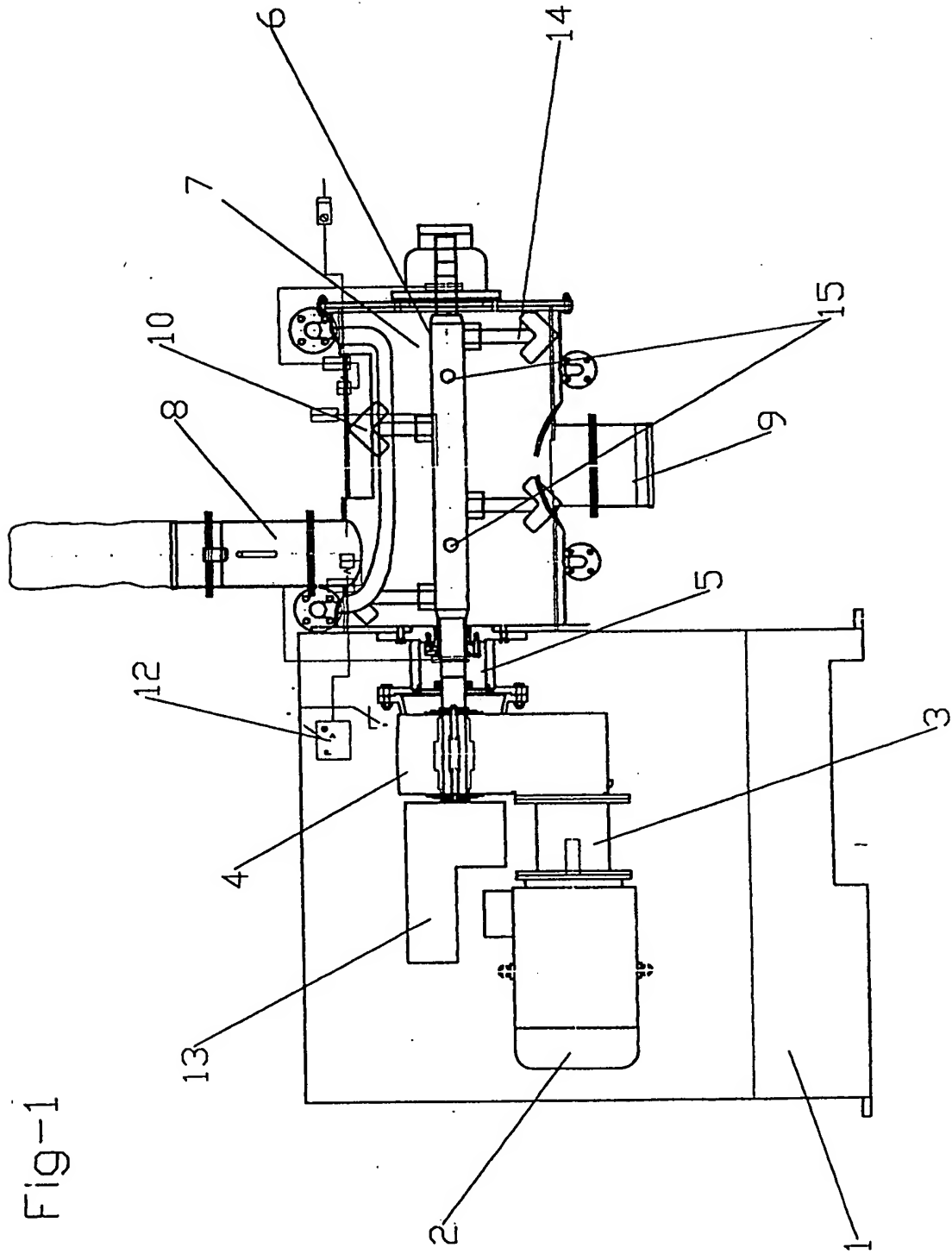
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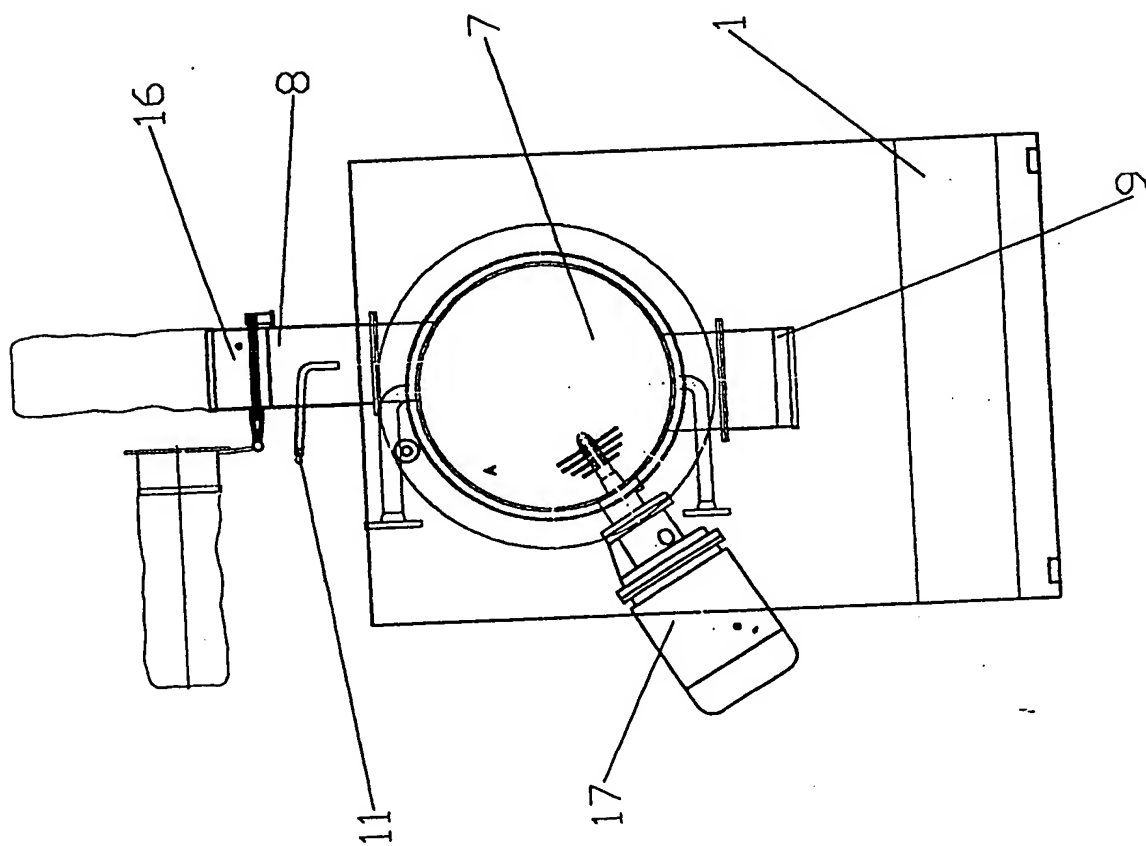
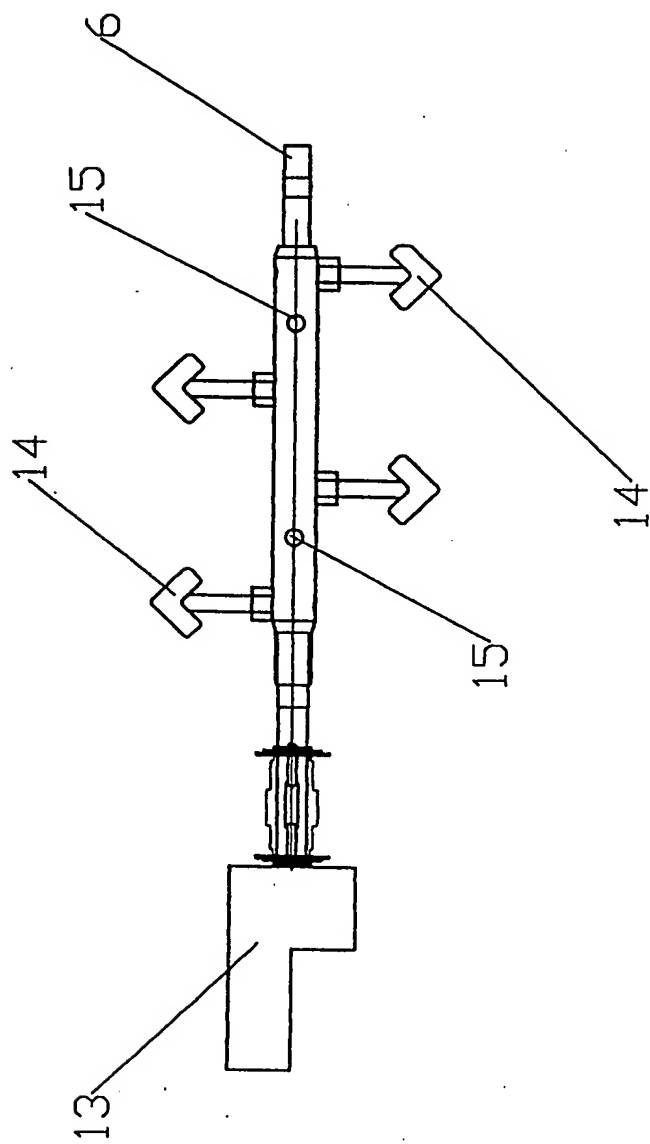


Fig-2

Fig-3



INTERNATIONAL SEARCH REPORT

International application No.

PCT/ES/02/00321

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 : B01F 15/06, H05B 6/78

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 : B01F 15/00, H05B 6/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPODOC, WPI, PAJ, CIBEPAT

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DE 19549494 A1 (SCHERING AG.) 02.10.1997, the whole document	1-2
Y	JP 55155735 A (HITACHI LTD.) 04.12.1980, the whole document	1-2
Y	US 5105555 A (NAKAGOMI) 21.04.1992, the whole document	1
Y	US 5932075 A (STRAUSS et al.) 03.08.1999, the whole document	1
Y	EP 0312741 A2 (NISSUI KAKO CO. LTD.) 26.04.1989, the whole document	1-2
Y	RU 2161548 C2 (SAMARSKIJ G TEKHN UNIVERSITE) 10.01.2001, the whole document	1-2

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Date of the actual completion of the international search

04 October 2002 (04.10.02)

Date of mailing of the international search report

06 November 2002 (06.11.02)

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Agenda

Día 5. Día Mundial del Medioambiente Humano.

Día 8. Ceremonia de inauguración del Mundial de Alemania 2006, con la participación estelar del cantante Peter Gabriel.

Día 8. Final de la NBA.

Día 16. Arranca el playoff de la Liga ACB. Dura hasta el 25.

Día 18. Se disputa en Cataluña el GP de Motociclismo.

Día 28. Día del Orgullo Gay.

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10/501,085 Oliver R. Petri

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